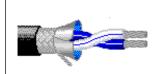


# 3105A Paired - EIA Industrial RS-485 PLTC/CM





For more information please call
1-800-Belden1

**See Put-ups and Colors** 

### **Description:**

22 AWG stranded (7x30) tinned copper conductors, Datalene® insulation, twisted pairs, overall Beldfoil® shield (100% coverage) plus a tinned copper braid (90% coverage), drain wire, UV resistant PVC jacket.

#### PHYSICAL CHARACTERISTICS:

#### **CONDUCTOR:**

Number of Pairs	1
Total Number of Conductors	2
AWG	22
Stranding	7x30
Conductor Diameter	.030 in.
Conductor Material	TC - Tinned Copper

## INSULATION:

Insulation Material Trade Name	Datalene®
Insulation Material	FHDPE - Foam High Density Polyethylene
Lay Length	2.5 in.
Pair Color Coda Chart	

#### Pair Color Code Chart:

Number	Color
1	White/Blue Stripe and Blue/White Stripe

### **OUTER SHIELD:**

Outer Shield Material Trade Name	Beldfoil®
Outer Shield Type	Tape/Braid

# Outer Shield Material:

Layer Number	Material Trade Name	Туре	Material	% Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	90

Outer Shield %Coverage 100 %

## **OUTER SHIELD DRAIN WIRE:**

OUTER SHIELD DRAIN WIRE:	
Outer Shield Drain Wire AWG	22
Outer Shield Drain Wire Stranding	7x30
Outer Shield Drain Wire Diameter	.030 in.
Outer Shield Drain Wire Conductor Material	TC - Tinned Copper



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#### **OUTER JACKET:**

Outer Jacket Material PVC - Polyvinyl Chloride

**OVERALL NOMINAL DIAMETER:** 

Overall Nominal Diameter .284 in.

**MECHANICAL CHARACTERISTICS:** 

Operating Temperature Range
-20°C To +60°C

Non-UL Temperature Rating
60°C

Bulk Cable Weight
44 lbs/1000 ft.

Max. Recommended Pulling Tension
60 lbs.

Min. Bend Radius (Install)
2.5 in.

### APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

#### **APPLICABLE STANDARDS:**

NEC/(UL) Specification	CM, PLTC OIL RES II
CEC/C(UL) Specification	CM
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	10/01/2005

# FLAME TEST:

UL Flame Test
UL 1685 UL Loading
CSA Flame Test
FT1

# SUITABILITY:

Sunlight Resistance Passes UL 1581, 720 Hours

### PLENUM/NON-PLENUM:

Plenum (Y/N)

# **ELECTRICAL CHARACTERISTICS:**

Input/Unfitted Impedance:

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Input/Unfitted Impedance (Ohms)
	1			
Nom. Characteristic Impedance		120 Ohms		
Nom. Capacitance Conductor to Conductor @ 1 KHz		11.0 pF/ft		
Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz		20.9 pF/ft		
Nominal Velocity of Propagation		78 %		
Nom. Conductor DC Resistance @ 20 Deg. C		14.7 Ohms/1000 ft		
Nominal Outer Shield DC Resistance @ 20 Deg. C		2.8 Ohms/1000 ft		
Nom. Attenuation (dB/100 ft	r) :			



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Description	Frequency (MHz)	Start Frequency (MHz)	Start Frequency (MHz) Stop Frequency (MHz)		
	1			.5	
Max. Operating Voltage -	UL	300 V RMS			
Max. Recommended Curre	ecommended Current 2.7 Amps per conductor @ 25°C				
NOTES:					
Notes			Oil Resistance: Passes Oil Res II Per UL1277, Table 10.17. For CPE jacketed version order Part No. YR44345.		

#### **PUT-UPS AND COLORS:**

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
3105A 0101000	1 PR #22 FHDPE SH PVC	1000	50	BLACK	С
3105A 010500	1 PR #22 FHDPE SH PVC	500	23	BLACK	С
3105A 0105000	1 PR #22 FHDPE SH PVC	5000	255	BLACK	CN

C = CRATE REEL PUT-UP.

N = FINAL PUT-UP LENGTH MAY VARY -0% TO +10% FROM LENGTH SHOWN.

Revision Number: 1 Revision Date: 10-10-2005

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